

# Mohit Soni

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## Work Experience

### University of Washington Seattle

Machine Learning Researcher

Seattle, WA

Feb 2022 - Sep 2022

- Mentored by University of Washington Seattle Data Science Professor Sundar Srinivasan
- Collected data of 1200+ matches through Kaggle & by web-scraping ESPN CricInfo website with Python
- Found probability of Cricket batsman getting out using length/speed/etc. of ball
- Trained and hyperparameter tuned Random Forests & Neural Networks
- Wrote 9-page research paper addressing my approaches and results

### SparkSIP

Machine Learning Intern

Remote

Jun 2022 - Sep 2022

- Classified DNA electrical signatures to their DNA code using Random Forest models, Neural Networks, and SVM
- Presented progress to 2 University of Washington Seattle Professors using PowerBI
- Wrote in-depth research paper summarizing my methods and results

### Project Sidewalk - Makeability Lab at the University of Washington Seattle

Web Development & Machine Learning Intern

Seattle, WA

Apr 2022 - Sep 2022

- Fixed 15-20 bugs involving JavaScript, Scala, CSS, and HTML
- Managed GitHub repository with a 40-member team
- Performed data cleaning tasks using Excel & Python
- Presented insights from cleaned data to computer vision team
- Presented progress to University of Washington Seattle Professor every week

## Skills

Web Development: Bootstrap, React, Streamlit, EJS, Flask, Node.js, Express.js, Django, SQL, MongoDB  
Data Science: Python, PowerBI, Pandas, Numpy, Tensorflow, Scikit-learn, Matplotlib, Plotly  
Additional: Java, C++, C#, Visual Studio Code, Jupyter Notebooks, Google Colab, Kaggle

## Projects

### Weakness Detector Research Pandas, Numpy, Scikit-learn, PowerBI

<https://tinyurl.com/mrxr95rr>

Cricket application capable of finding weaknesses of cricket players based on past performances using Random Forest ML model with accuracy of 90%

### ML Model Insights App Streamlit, Pandas, Numpy, Matplotlib

<https://algo-insights.streamlit.app/>

Application that allows users to quickly evaluate multiple ML models on an uploaded/chosen dataset both numerically and visually without writing any code

### Blogging Website EJS, Node.js, Express.js, MongoDB

<https://tinyurl.com/4kcxu9xf>

A website that gives users the ability to compose blog posts for themselves, which are stored and can be viewed/edited later, each on a separate webpage

## Awards

### 1st in State for Machine Learning-based Geospatial Design

TSA (Technology Student Association)

Recognized for using maps of Washington State & data regarding the salinity, pollution, etc. of waterways to identify hazardous salmon breeding areas

Mar 2022

### Webmaster State Finalist (Top 10 in State)

TSA (Technology Student Association)

Recognized for creating a website using vanilla HTML, CSS, and JavaScript that advertised the Indian Premier League (Cricket league)

Mar 2022

## Valuable Courses

**Machine Learning Specialization (Coursera)** Learned ML algorithms like Gradient Descent, models such as Neural Networks, and Dimensionality Reduction principles, using multivariate calculus Aug 2022

**The Complete 2022 Web Development Bootcamp (Udemy)** Gained hands-on expertise in frontend development (Bootstrap, React), backend development (Node.js, Express.js, EJS), and databases (SQL, MongoDB, Mongoose) Dec 2022

## Education

**Cornell University** (GPA: 4.30/4.30)

Ithaca, NY

Computer Science in the College of Engineering

Aug 2023 - May 2027